IBM WebSphere Everyplace Connection Manager V5.1 offers highly encrypted transmissions over wireless and wired networks

**Overview**

WebSphere® Everyplace™ Connection Manager (WECM) V5.1 allows enterprises to efficiently extend existing applications to mobile workers over many different wireless and wireline networks. It allows users with different application needs to select the wireless network that best suits their situation. It also supports seamless roaming between different networks. WECM V5.1 can be used by service providers to produce highly encrypted, optimized solutions for their enterprise customers.

WECM V5.1 is a distributed, scalable, multipurpose communications platform designed to optimize bandwidth, help reduce costs, and help ensure security. It creates a mobile VPN that encrypts data over vulnerable wireless LAN and wireless WAN connections. It integrates an exhaustive list of standard IP and non-IP wireless bearer networks, server hardware, device operating systems, and mobile security protocols.

WECM V5.1 can be used in conjunction with WebSphere Everyplace Access (WEA), WebSphere Portal, IBM Workplace Client Technology — Micro Edition, and IBM Lotus® WorkPlace products to encrypt and extend business applications to mobile users beyond the enterprise. It is a critical component in many industry-specific solutions from IBM.

Benefits of WECM V5.1 include:

- Dynamic Session Profiles allow recognition of the type of network over which you are connecting and automatic application of tuning parameters to help achieve optimal performance.

This feature can simplify configuration and enhance the seamless roaming capability by automatically switching network-specific performance settings when roaming occurs.

- The ability to export/import client configuration files can facilitate deployment of client configuration changes over the air.

An administrator has the ability to set or change client parameter options and then distribute the new configuration to the client. The client can import the new configuration and accept the changes.

- Application Check/Autostart allows the Mobility Client to be configured to check whether certain programs are running, such as antivirus or personal firewall software, before allowing the connection to start.

- Installation with Quickstart Mobile VPN is improved with the use of the VPN Wizard.

The VPN wizard can configure WECM with common parameters that can help you get up and running quicker.

- Expanded support for wireless networks includes CDMA1xrtt, CDMA1xevdo, CDMA1xevdv, EDGE, and Nextel Wireless Broadband.

- Additional client support, including Nokia 9500 and Windows™ Mobile Second Edition devices in portrait and landscape modes (Nokia 9500 client is available only via electronic download).

- Support for Red Hat Enterprise Linux™ V3 AS and ES for Intel® processors, and for SuSE Linux Enterprise Server 8.

- Compatibility with selected third party VPN solutions is expanded.

**At a glance**

WECM V5.1 can provide benefits for enterprises, including:

- Protection of sensitive information when transmitted over wireless networks by creating an encrypted Virtual Private Network (VPN) client between the Connection Manager and Mobility Client components

- Superior flexibility and user experience through seamless network roaming that can allow mobile users to maintain session persistence when the mobile device changes network connections

- Support for a comprehensive spectrum of communication protocols for both Internet Protocols (IP) and non-IP networks

- Reduction of mobile transmission costs and lower connection fees through data optimization functionality that delivers compression, header reduction, and minimization of Transmission Control Protocol (TCP) retransmissions that can reduce data loads and increase effective bandwidth

WECM V5.1 updates WECM Starter Edition to V5.1. WECM V5.1 is also offered without wireless application protocol (WAP) for a lower price.

**Key prerequisites**

Refer to the Technical information section.

**Planned availability dates**

- October 29, 2004: Electronic software delivery
- November 12, 2004: Media and documentation
WECM V5.1 offers a communications platform for compression, security, and persistence to help drive higher wireless data throughput and lower costs. The platform supports highly encrypted access over a wide range of wireless and wireline networks.

WECM V5.1 provides a standard TCP/IP communications interface to a variety of wireless, dial-up, and LANs with data optimization and security. The components that make up WECM are designed to run on multi-vendor hardware and operating system platforms.

Major components of WECM V5.1 include Connection Manager, Distributed Administration/Gatekeeper, and Mobility Client.

Connection Manager supports a comprehensive spectrum of communication protocols for both IP and non-IP networks. Flexible connections can be created by configuring multiple Mobile Network Connections (MNC) for many combinations of public or private physical networks. Each MNC can be tuned for optimal performance, compensating for latency, link speed, and other characteristics that vary across different communications technologies.

Distributed Administration/Gatekeeper offers a Java™ technology-based administrator console to the WECM and to wireless resources. Administration of Connection Manager is simplified with Gatekeeper and optional user administration portlets using the WebSphere Portal Server or WEA.

Mobility Client is software that runs locally on user devices and offers full-function interface to communicate with the Connection Manager. Once Mobility Client authenticates to Connection Manager, a VPN is established and the device securely joins the enterprise intranet. The Connection Manager supports standard IP routing (includes routing over non-IP wireless bearer networks) to help ensure unbroken, end-to-end TCP sessions between mobile devices and application servers. Mobility Client also includes a toolkit and application program interfaces to create network-aware applications. Limitations may apply to some devices. Refer to the Device considerations and limitations section.

For help in determining device support, additional product information, or assistance with any aspect of WECM or other Pervasive Computing products, contact your IBM Pervasive Computing sales specialist or authorized Business Partner. Product information and contact information is also available at

http://www.ibm.com/pvc
http://www.ibm.com/software

WECM has been enabled to extend its seamless network roaming capability to other VPN products. This new capability can allow users of other VPN products to leverage the capability to seamlessly switch physical network interfaces while maintaining connections.

A white paper detailing the WECM client and VPN client configurations is available at

http://www.ibm.com/software/pervasive/ws_everyplace_connection_manager/support/

WECM Starter Edition V5.1 includes the same program software as WECM V5.1, but with different terms and pricing. WECM Starter Edition is for customers who want the capabilities of WECM but need to start with a lower initial investment and license no more than 50 users. A discounted tradeup to a fully entitled processor license for WECM is available when the customer is ready to expand.

Everyplace Professional Services
To get the most from IBM Everyplace products, we recommend that our customers employ skilled services personnel. Call your IBM Software Sales Specialist today to find out more about installation and integration services available from IBM and from IBM Everyplace-skilled Business Partners.

Product positioning
WECM extends the IBM Application Framework for e-business and can allow customers to mobilize and extend many of their existing applications to their mobile workers over multiple wireless networks, across multiple wireless devices and platforms, in a highly encrypted and optimized manner. This can help enterprise customers, suppliers, and employees conduct business cost effectively — virtually anywhere, anytime.

WECM V5.1 can be used together with other products in the WebSphere brand and WebSphere Everyplace family to enable highly encrypted wireless access and e-business.

WECM V5.1 replaces WECM V5.0 and includes the functions of previous releases of WECM, as well as enhancements and additional capabilities. For customers who do not require WAP, WECM V5.1 is available without WAP for a lower cost.

The program software in WECM Starter Edition V5.0 is replaced by WECM V5.1, creating WECM Starter Edition V5.1. Although the functions of the WECM V5.1 and WECM Starter Edition V5.1 are the same, the WECM Starter Edition V5.1 has unique terms. Licensing is limited to a maximum of 50 users.

When customers are ready to expand their WECM environment beyond the 50-user limitation of WECM Starter Edition, they may convert to the full entitlement licensing of WECM V5.1 with WAP, or WECM V5.1 without WAP, for a discounted price.

Customers with current Passport Advantage® maintenance who purchased an earlier release of WECM or WECM Starter Edition are entitled to receive the equivalent V5.1 program according to the terms of their Passport Advantage Agreement.

For additional information or assistance, contact an IBM Pervasive Computing Division representative and visit our Web site at

http://www.ibm.com/pvc

Reference information
Refer to Software Announcement 204-150, dated June 29, 2004.
Trademarks

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WebSphere, Lotus, and Passport Advantage are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
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Windows is a trademark of Microsoft Corporation.
Java is a trademark of Sun Microsystems, Inc.
Linux is a trademark of Linus Torvalds in the United States, other countries or both
Other company, product, and service names may be trademarks or service marks of others.
Education support

Refer to the Pervasive Computing Web site for more information about available training and educational information.

http://www.ibm.com/pvc

IBM Global Services, IT Education Services, also provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM IT Education Services Web site.


Refer to the IBM IT Education Services Web site for information on course locations and availability dates. Also refer to the IBM Pervasive Computing Web site.

Call IBM IT Education Services at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments. Or, contact your IBM Pervasive Computing specialist for more information.

Offering Information

Product information is available via the Offering Information Web site.

http://www.ibm.com/common/ssi

Also, visit the Passport Advantage® Web site.

http://www.ibm.com/software/passportadvantage

Publications

No printed publications are shipped with WECM V5.1 or WECM Starter Edition V5.1.

The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries free of charge.

The IBM Publications Notification System (PNS)

http://service5.boulder.ibm.com/pnsrege.nsf/messages/welcome

PNS enables subscribers to set up profiles of interest by order number/product number. PNS subscribers automatically receive e-mail notifications of all new publications defined in their profiles. These may then be ordered/downloaded from the Publications Center.

The PNS site is available in English and Canadian French.

Technical information

Hardware requirements: The following are minimum configurations for WECM V5.1:

IBM AIX® operating environment
• IBM pSeries® 615 with 64-bit POWER™ 4+ processor at 1.2 GHz
• 1 GB memory
• 75 MB disk space plus additional 1 GB for logging

Sun Solaris operating environment
• Sun Blade 150 with UltraSPARC Ii at 550 MHz
• 1 GB memory
• 75 MB disk space plus additional 1 GB for logging

Linux™ operating environment
• IBM xSeries® 205VL or compatible with Intel™ Pentium™, AMD K6, or compatible processor at 400 MHz
• 256 MB memory
• 75 MB disk space plus additional 1 GB for logging

The following is required to use the Gatekeeper component:

IBM AIX operating environment
• IBM pSeries 615 with 64-bit POWER 4+ processor at 1.2 GHz
• 1 GB memory
• 75 MB disk space

Sun Solaris operating environment
• Sun Blade 150 with UltraSPARC Ii at 550 MHz
• 1 GB memory
• 100 MB disk space

Linux operating environment
• xSeries 205VL or compatible with Intel Pentium, AMD K6, or compatible processor at 400 MHz
• 256 MB memory
• 75 MB disk space

Microsoft™ Windows™ operating environment:
xSeries 205VL or compatible with Intel Pentium, AMD K6, or compatible processor at 400 MHz

256 MB memory

75 MB disk space

A Mobility Client requires

Connection Manager configured for mobile access services

A mobile computer with sufficient resources (processor speed, hard drive and memory) to run the operating system, manage modem communications, and run your other applications.

A modem or interface adapter for your network provider

Mobility Client disk space requirements to install the full Mobility Client image

On Microsoft Windows 2000 or Microsoft Windows XP: 5 MB

On Microsoft Windows CE: 5 MB (the final image on the Windows CE device is smaller)

On Palm OS: 11 MB (the final image on the Palm device is 4 to 8 MB)

On Symbian OS: 500 KB

Software requirements: The following system software is required to use WECM V5.1.

One of the following operating systems

- AIX V5.1
- AIX V5.2
- Sun Solaris 8
- Sun Solaris 9
- SuSE 8.1
- SuSE 8.2
- SuSE 9.0
- Red Hat Enterprise Linux 3.0 ES/AS
- SuSE Linux Enterprise Server 8

One of the following directory servers

- Tivoli® Directory Server 4.1, or later
- Tivoli Directory Server 5.1, or later
- Tivoli Directory Server 5.2
- Netscape Directory 4.1
- Sun ONE Directory Server 5.x
- OpenLDAP 2.0.27 or 2.1

Access to a relational database

- DB2® 7.2 (any edition)
- DB2 8.1 FixPak 3, or later FixPak (any edition)
- Oracle 8.1.6 or 8.1.7 with Merant DataDirect Connect ODBC
- Driver V4.2
- Oracle 9.0.1, 9.2.0.1, or 9.2.0.2 with Merant DataDirect
- Connect ODBC Driver V4.2

X.25 Adapter Support (Optional)

- AIXLink 1.1.5.0, or later
- X.25 StreamSuite from Gcom, Inc.

One of the following operating systems is required to use the Gatekeeper component

- AIX V5.1
- AIX V5.2
- Sun Solaris 8
- Sun Trusted Solaris 8
- Sun Solaris 9
- Red Hat Enterprise Linux 3.0 WS/ES/AS
- SuSE Linux Enterprise Server 8
- SuSE Linux Desktop 8
- SuSE 8.1
- SuSE 8.2
- SuSE 9.0
- Microsoft Windows 2000
- Microsoft Windows XP

One of the following operating systems or devices is required to use the Mobility Client (refer to the Device considerations and limitations section)

- Microsoft Windows 2000
- Microsoft Windows XP (Professional, Tablet PC)
- Pocket PC 2002
- Pocket PC 2002 Phone Edition
- Windows Mobile 2003 Pocket PC
- Windows Mobile 2003 Pocket PC Phone Edition
- Windows Mobile 2003 Second Edition (portrait and Landscape modes only)
- Tungsten C (Palm OS 5.2.1)
- Tungsten W (Palm OS 4.1.2)
- Treo 600 (Palm OS 5.2.1)
- SuSE 8.1
- SuSE 8.2
- SuSE 9.0
- Red Hat Enterprise Linux 3.0 WS
- SUSE LINUX Enterprise Desktop 8
- Sony Ericsson P900
- Nokia 9500

Device considerations and limitations

- The design and/or configuration of some devices may limit the WECM capabilities that can be used by the device.
- Not all devices can support all of the functions offered by WECM.
- IBM cannot guarantee that any devices will work correctly due to differences in manufacturing, configuration and pre-loaded device software.
- Some Mobility Clients for the supported devices are available as downloads rather than being included on the WECM media.
- Availability of devices and the level of device support may change over time based on device manufacturers actions. Some devices may go out of support; new devices may be added.
- The availability of devices is dependent on device manufacturers actions; therefore, some devices may be available on a later date than the WECM Mobility Clients for those devices.
- If you encounter a problem on a device that is no longer supported by the manufacturer or service provider, IBM, at its discretion, will determine if a fix can be provided.

Planning information

Packaging: WECM V5.1, with or without WAP, is available through the Passport Advantage Agreement. The program is provided on CD-ROMs in a media pack and is also available for electronic download from the Passport Advantage Web site. All of the supported languages, including English, are in the same code image. The language is selected at the time of installation and configuration.
WECM Starter Edition V5.1 is also available via Passport Advantage. It contains the same code image as WECM V5.1 with WAP. WECM Starter Edition licensing is limited to a maximum of 50 users.

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product information

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<th>Licensed function title</th>
<th>Product group</th>
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Charge structure

- The charge structure for WECM V5.1, with or without wireless application protocol (WAP), is based on a one-time charge per processor
  - WECM V5.1 includes all functions and components, including WAP.
  - WECM V5.1 without WAP includes all functions and components except WAP.

Customers who choose WECM V5.1 or WECM V5.1 without WAP should order the applicable Passport Advantage licensing (includes 12 months software maintenance) part number in a quantity equal to the number of processors on which the product will be used.

Customers who purchased earlier releases of WECM and are still in the maintenance coverage period are entitled to the corresponding WECM V5.1 (with or without WAP) program for no additional charge, according to the terms of their Passport Advantage Agreement.

- The charge structure for WECM Starter Edition is a one-time charge for a group of up to a maximum of 50 users.

To license one group of up to 50 users, customers should order the applicable WECM Starter Edition V5.1 licensing part number in a quantity of one.

When a customer is ready to expand their WECM environment, WECM Starter Edition customers may convert to the full entitled WECM V5.1, with or without WAP, at a 25% discount off their normal Passport Advantage price.

Customers who purchased an earlier release of WECM Starter Edition and are still in the maintenance coverage period are entitled to WECM Starter Edition V5.1 for no additional charge, according to the terms of their Passport Advantage Agreement. The terms and usage limitations of WECM Starter Edition continue to apply to V5.1.

For more information or assistance, contact an IBM Pervasive Computing Division representative.

Passport Advantage program licenses

WebSphere Everyplace Connection Manager Starter Edition

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WebSphere Everyplace Connection Manager Without WAP

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**Passport Advantage customer: Media pack entitlement details**

Customers with active maintenance or subscriptions for the products listed are entitled to receive the corresponding media pack.
On/Off Capacity on Demand

WebSphere Everyplace Connection Manager without WAP

- WECM without WAP Processor Day Per Use-DAY, On Off Capacity on demand Temp (532ZCLL)

Terms and conditions

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Agreement: IBM International Program License Agreement. Proofs of Entitlement (PoE) are required for all authorized use.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

License information (LI) form number: L-KMEN-63R4QY

Limited warranty applies: Yes

Warranty: This program has warranty for a minimum of one year from acquisition from IBM or authorized IBM Business Partner. The warranty provided to the customer, for at least one year from acquisition, is access to databases (read Web sites) for program information and FAQs, including any known fixes to defects, which the customer can download or obtain otherwise and install at leisure.

Program technical support: Technical support of a program product will be available for a minimum of three years from the general availability date, as long as your Software Maintenance is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Maintenance also provides you with access to updates, releases, and versions of the program. Customers will be notified, via announcement letter, of discontinuance of support with 12 months’ notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

Money-back guarantee: If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a refund. This applies only to your first acquisition of the program.

Copy and use on home/portable computer: No

Volume orders (IVO): No

Passport Advantage applies: Yes and through the Passport Advantage Web site at

http://www.ibm.com/software/passportadvantage

Usage restriction: Yes

In addition to the terms of the IPLA, WECM 5.1 includes unique terms and conditions relating to the use of client components. The specific terms are included in the LI document that is associated with the product.

Additional Limitations and terms apply if the program is acquired as WECM Starter Edition V5.1. Each license for WECM Starter Edition entitles you to have up to a maximum of 50 users to access the program.

On or near the planned availability date of the product, the LI document will be available for review on the IBM Software License Agreement Web site


IBM Operational Support Services — Support line: No

Other support: Passport Advantage

iSeries software subscription applies: No

On/Off capacity on demand

To be eligible for On/Off Capacity on Demand pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract — Z125-6907, Amendment for iSeries and pSeries Temporary Capacity On Demand — Software — must be signed prior to use.

IBM Electronic Services

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IBM Electronic Services news page provides you with a single Internet entry point that replaces the multiple entry points traditionally used by customers to access IBM Internet services and support. By using the news page, it enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The IBM Electronic Service Agent is no-additional charge software that resides on your IBM eServer System. It is designed to proactively monitor events and transmit system inventory information to IBM on a periodic customer-defined timetable. The IBM Electronic Service Agent tracks system inventory, hardware error logs, and performance information. If the server is under a current IBM maintenance service agreement or within the IBM warranty period, the Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to provide proactive service that maintains higher system availability and performance. In addition, information collected through the Service Agent will be made available to IBM service support representatives when they are helping answer your questions or diagnosing problems.

To learn how IBM Electronic Services can work for you, visit

http://www.ibm.com/support/electronic
Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner. Additional information is also available at

http://www.ibm.com/software/passportadvantage

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM Business Partner or IBM representative, call 1 800-IBM-4YOU (426-4968).

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